

DOCKETED

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| Project Title: | High Desert Power Plant |
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| Document Title: | 2015 Urban Water Management Plan Appendix D Part 1 of 4 |
| Description: | N/A |
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Appendix D

Projects

Part 1 of 4

Appendix D.1

Project Submittal and Instruction Forms

Required Project Information

Mojave Integrated Regional Water Management Plan

Forms

There are two available project forms for submitting a project –

1. A **short form** used for a conceptual project idea or a project not fully developed yet.
2. A **long form** used for a more defined project that has gone through stages of planning and design and is ready for construction or implementation.

Project proponents can fill out the appropriate form of their choice and must provide as much of the project information requested in the form as possible. The information will be reviewed by the Project Team using the screening process outlined during the June 6 meeting (see link below). Project proponents are expected to collect and assemble project-specific information for projects to be considered for inclusion in the Mojave Region IRWM Plan Update.

It is acceptable if not all of the blanks are filled in on either form but the proponent should try to complete as many as possible to allow the reviewers to make appropriate screening decisions in a timely manner.

Integration Highly Recommended

We highly recommend that those submitting new projects (or updating an existing IRWM Plan project) look for and review other projects in the Region to see if there are opportunities to team up and create an integrated and multipurpose project. Contact the Mojave website (www.mywaterplan.com) for help in finding other projects that may be complementary to or supportive of your project.

2013 IRWM Plan Update - Project Review Process

All projects to be included in the 2013 IRWM Plan Update will undergo review. The draft process for project review, and the draft scoring methodology to be used for all projects can be found in Meeting #3 (June 6, 2013) Handout 2 at www.mywaterplan.com/meetings.

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | | |
|---|--|---|---|--|---------------------------------|
| Project Name: | | | | | |
| Project Sponsor: | | | | | |
| If Joint Project, Other Partners: | | | | | |
| Project Website (if available): | | | | | |
| Project Contact Person: | Phone | FAX | Email | | |
| Project Description | | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | | |
| Project Description (1-2 sentences): | | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | | |
| Project Location | | | | | |
| Descriptive (Description of property location etc.): | | | | | |
| Latitude/Longitude - info available at: http://geocoder.us/ | | Lat: | Long: | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> | |
| Project Status (Check all that apply): | Conceptual <input type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Estimated Year of Completion: | | | | | |

| Project Benefits | | | |
|---|--------------------------|---|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : | Multi-benefit Y/N: | | |
| Multi-stakeholder project/regional collaboration | Y/N: | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | |
|--|--|
| <input type="checkbox"/> | Drought Preparedness |
| <input type="checkbox"/> | Use and Reuse Water More Efficiently |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) |
| <input type="checkbox"/> | Expand Environmental Stewardship |
| <input type="checkbox"/> | Practice Integrated Flood Management |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits |
| Program Preferences | |
| <input type="checkbox"/> | Include Regional Projects or Programs |
| <input type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program |
| <input type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning |
| CA Water Plan - Resource Management Strategies | |
| <input type="checkbox"/> | Agricultural Lands Stewardship |
| <input type="checkbox"/> | Agricultural Water Use Efficiency |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local |
| <input type="checkbox"/> | Desalination - Brackish & Seawater |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution |
| <input type="checkbox"/> | Economic Incentives |
| <input type="checkbox"/> | Ecosystem Restoration |
| <input type="checkbox"/> | Flood Risk Management |
| <input type="checkbox"/> | Forest Management |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation |
| <input type="checkbox"/> | Land Use Planning & Management |
| <input type="checkbox"/> | Matching Water Quality to Water Use |
| <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Watershed Management |

Proposed Project Long Form Instructions

Mojave Integrated Regional Water Management Plan

Please complete this project information long form as much as possible in its entirety for each separate project. Projects submitted for consideration shall be received no later than **1 August 2013** to comments@mywaterplan.com. The form is intended to be filled out electronically using Adobe Acrobat and then submitted via email, but can be completed by hand and then mailed to Mojave Water Agency at the address shown on the www.mywaterplan.com website. Please note comment fields are not limited; text is preserved even if it does not appear on the form.

For questions or assistance in completing the form contact Yvonne Hester via email at yhester@mojavewater.org.

Sections 1, 2, & 3. Project Proponent, General Project Information, and Description

Please fill in all requested fields.

Project Location (Latitude and Longitude) – Can be approximated using Google Earth.

Project Location Description – Please include as much detail as possible.

Section 4. IRWM Plan Objectives Addressed

Information related to the proposed IRWM Plan objectives can be found in Meeting #3 (June 6, 2013) Handout 5 at www.mywaterplan.com/meetings. Please see the list of objectives and the screening matrix on the website to help you determine how well your project addresses various criteria.

Section 5. Resource Management Strategies

A resource management strategy is a project, program, or policy that helps local agencies and governments manage their water and related resources. For example, urban water use efficiency is a strategy to reduce urban water use. A pricing policy or incentive for customers to reduce water use also is a strategy. New water storage to improve water supply, reliability, and quality is another strategy. (See Box 1-1 Resource Management Strategies and Management Objectives for alphabetical listings) (2009 California Water Plan). Further detailed descriptions of the Resource Management Strategies can be found in Volume 3 of the 2009 California Water Plan here: <http://www.waterplan.water.ca.gov/cwpu2009/index.cfm>. They are also included, along with three new strategies from the Draft 2013 California Water Plan, on the screening matrix.

Box 1-1 Resource Management Strategies and Management Objectives

| Resource Management Strategy | Chapter No. | Management Objective |
|--|--------------------|---|
| Agricultural Lands Stewardship | 20 | Practice Resource Stewardship |
| Agricultural Water Use Efficiency | 2 | Reduce Water Demand |
| Conjunctive Management and Groundwater Storage | 8 | Increase Water Supply |
| Conveyance—Delta | 4 | Improve Operational Efficiency and Transfers of Water |
| Conveyance—Regional/local | 5 | Improve Operational Efficiency and Transfers of Water |
| Desalination | 9 | Increase Water Supply |
| Drinking Water Treatment and Distribution | 14 | Improve Water Quality |
| Economic Incentives (Loans, Grants, Water Pricing) | 21 | Practice Resource Stewardship |
| Ecosystem Restoration | 22 | Practice Resource Stewardship |
| Flood Risk Management | 28 | Improve Flood Management |
| Forest Management | 23 | Practice Resource Stewardship |
| Groundwater Remediation/Aquifer Remediation | 15 | Improve Water Quality |
| Introduction | 1 | |
| Land Use Planning and Management | 24 | Practice Resource Stewardship |
| Matching Water Quality to Use | 16 | Improve Water Quality |
| Other Strategies | 29 | Objectives vary by strategy |
| Pollution Prevention | 17 | Improve Water Quality |
| Precipitation Enhancement | 10 | Increase Water Supply |
| Recharge Area Protection | 25 | Practice Resource Stewardship |
| Recycled Municipal Water | 11 | Increase Water Supply |
| Salt and Salinity Management | 18 | Improve Water Quality |
| Surface Storage—CALFED | 12 | Increase Water Supply |
| Surface Storage—Regional/Local | 13 | Increase Water Supply |
| System Reoperation | 6 | Improve Operational Efficiency and Transfers of Water |
| Urban Runoff Management | 19 | Improve Water Quality |
| Urban Water Use Efficiency | 3 | Reduce Water Demand |
| Water Transfers | 7 | Improve Operational Efficiency and Transfers of Water |
| Water-dependent Recreation | 26 | Practice Resource Stewardship |
| Watershed Management | 27 | Practice Resource Stewardship |

Section 6. Project Readiness

For the Project Status, please check only one box to indicate the stage of development for the project. If your project has multiple phases in different stages, more than one box can be checked if appropriate and consistent with the project description.

If your project is ongoing, in the “Expected Completion Date” box, it is ok to indicate the current phase of the project and that it is ongoing (e.g. Conceptual Plan Development is on-going).

Examples of projects that do not include construction are implementation projects such as habitat protection, water use efficiency implementation measures, or public education. These projects do not have a design or construction drawing component to the project but could include phases for implementation or when certain measures or Best Management Practices (BMPs) such as washing machine rebates will be available to the public.

Section 7. Project Impacts and Benefits

The following provides examples of impacts and benefits; further discussion can be found in the Proposition 84 & Proposition 1E Integrated Regional Water Management Guidelines here: http://www.water.ca.gov/irwm/grants/docs/Guidelines/GL_2012_FINAL.pdf

WATER SUPPLY ENHANCEMENT

A program to increase water supply may include projects, such as:

- ↕ Rehabilitation of diversion structures
- ↕ Water supply pipelines and water systems
- ↕ Additional water system tie-ins/interconnections
- ↕ Construction of groundwater treatment and extraction facilities
- ↕ Conjunctive water management
- ↕ Aquifer storage and recovery
- ↕ New or upgrades to existing reservoirs
- ↕ Water storage facilities
- ↕ Production well construction

Possible impacts may include reduced in-stream flow, water quality degradation, habitat removal, species removal, flooding, loss of farmland, and construction related impacts. Some of the proposed projects may have impacts on communities, including DACs. If so, these impacts need to be discussed. If there are any EJ impacts, they should be addressed as well. Water supply benefits may be characterized as increased water supply or range in water supply (i.e. acre-feet per year). Other anticipated benefits, such as improved water quality, increased recreational opportunities, decreased reliance on imported water, reduced groundwater overdraft, creation of wetlands and riparian habitat, and decreased operational costs.

WATER QUALITY IMPROVEMENT

A program to improve water quality may include projects, such as:

- ↕ Building or upgrading wastewater treatment plants/technology
- ↕ Conversion of septic tanks to a sewer system
- ↕ Construction of new and updating collection, sewer, and interceptor sewer facilities
- ↕ Capture and treatment of stormwater/urban runoff, including the construction of rain gardens
- ↕ Construction of wetlands for water quality treatment
- ↕ Contaminant removal

↪ Salinity management

Possible impacts may include construction related impacts including short-term, site-specific impacts related to site grading and construction, and long-term impacts associated with project operation. Construction-related impacts may include: traffic, noise, biological resources, water quality, public services and utilities, cultural resources, and aesthetics. Other impacts may include surface water and ocean habitat loss from new outflow locations, and waste discharge issues associated with brine management and brine disposal. Possible benefits from improved water quality projects may include increased water supply, improved aquatic and wetland species habitat and populations, increased cropland production, creation of wetlands and riparian habitat, improved recreation opportunities, and decreased treatment costs.

GROUNDWATER IMPROVEMENTS

Groundwater improvement programs may include projects to:

- ↪ Enhance conjunctive management and groundwater storage
- ↪ Capture and recharge Stormwater/Urban Runoff
- ↪ Install groundwater recovery wells
- ↪ Construct new and/or rehabilitate surface water recharge spreading grounds
- ↪ Perform aquifer storage and recovery
- ↪ Improve groundwater monitoring
- ↪ Conduct hydrogeologic investigations
- ↪ Model groundwater

Possible impacts may include construction related effects, changes in water quality, increased contaminant transport, increased pumping, and in-stream flow reduction. Possible benefits may include improved flood protection, decreased reliance on imported water, reduced surface water use, reduced pumping costs, and decreased or prevention of groundwater overdraft.

WATER CONSERVATION AND REUSE

Water conservation and reuse programs may include projects to:

- ↪ Upgrade wastewater treatment facilities to recycle water
- ↪ Landowner and homeowner incentive programs, such as rebate programs
- ↪ Improve agricultural drainage water reuse or management
- ↪ Construct recycled water systems and pipelines
- ↪ Improve urban landscape water use efficiency

Possible impacts may include construction related effects, loss of drainage flow to downstream water users, in-stream flow loss, groundwater and surface water quality effects associated with recycled water use, and reduced groundwater recharge. Benefits could be increased water saving, efficient reuse of wastewater, costs savings from reduced purchases of imported water, and saving construction of water storage facilities, and increased nutrient levels for plant and crop use from use of reclaimed wastewater.

WATERSHED REHABILITATION

A watershed rehabilitation program may include projects to:

- ↕ Decommission abandoned roads
- ↕ Enhance unimproved and county road systems for erosion control
- ↕ Restore sloughs and/or wetlands
- ↕ Manage Stormwater/Urban Runoff
- ↕ Conduct channel and riparian restoration and upland source control
- ↕ Conduct stream stabilization and other sediment load reduction projects
- ↕ Implement Best Management Practices (BMPs), including forestry BMPs
- ↕ Reduce non-point source pollution

Possible impacts could be introduction of non-native plants for erosion control and temporary increased turbidity in streams due to construction or related activities, including revegetation and forest regeneration activities and prescribed fires (to reduce undesirable trees and vegetation, etc.). Benefits may include long-term sediment reduction and temperature improvements, reduced surface water nutrient and bacteria concentrations (improved water supply quality), improved fish and wildlife habitat and passage, and enhanced public safety and recreational opportunities.

HABITAT IMPROVEMENT

A habitat improvement program may include projects to:

- ↕ Augment stream flows
- ↕ Preserve existing habitat
- ↕ Remove invasive, non-native species
- ↕ Restore wetlands and upland habitat
- ↕ Protect ecological reserves

Possible impacts could include short-term, site-specific impacts related to site grading and construction, loss of agricultural land protection and urban uses and associate local revenue. Benefits may be reduced surface water nutrient and bacteria concentrations (improved water supply quality), enhanced fish habitat, increased opportunities for recreational hunting and viewing, increased numbers of native species, reduced flood risks, and education opportunities.

FLOOD MANAGEMENT

Flood management programs may include projects to:

- ↕ Improve levees systems (i.e. floodwalls, raising levee heights, setback levees, etc)
- ↕ Preserve floodplains
- ↕ Development drainage master plans
- ↕ Remove invasive species from stream channels to improve surface flow
- ↕ Improve stormwater collection, diversion, or capture
- ↕ Improve infrastructure, including weir upgrades

Impacts may include short-term, site-specific impacts related to construction, land use restrictions, development moratoriums (with potential economic effects), and loss of riparian and/or wetland acreage. Benefits could include increased aquifer recharge, runoff reduction, improved surface water quality, natural resources preservation and restoration, reduced risk to life and property, and decreased flood insurance costs.

Section 8. Project Cost Estimate

Capital improvement costs should be how much the project would cost to construct or implement in 2013 dollars or escalated to 2013 dollars using the appropriate Engineering News Record (ENR) cost index and footnoted.

Mojave Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY **August 1, 2013** to comments@mywaterplan.com. Items denoted with an asterisk are required.

PART I: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Agency / Organization / Individual Address:

Possible Partnering Agencies:

Name: *

Title:

Telephone: *

Fax:

Email: *

Website:

Project Name: *

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

| | |
|------------------------------|--|
| Location Description: | |
|------------------------------|--|

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

| |
|---|
| • |
| • |
| • |
| • |

Project Status (e.g., new, ongoing, expansion, new phase):

| |
|--|
| |
|--|

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

| |
|--|
| |
|--|

PART 2: PROJECT NEED*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

| |
|--|
| |
|--|

PART 3: PROJECT DESCRIPTION*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

| |
|--|
| |
|--|

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

| |
|---|
| • |
| • |
| • |
| • |

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

| |
|---|
| • |
| • |
| • |

How do you rate the technical feasibility of the proposed project?

| | |
|---------------------------------|---|
| <input type="checkbox"/> High | The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results. |
| <input type="checkbox"/> Medium | The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success. |
| <input type="checkbox"/> Low | The project has not been done before and technical feasibility is not adequately documented. |

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|-------------------------------------|---------------------------------------|--------------------------------|-------------|
| 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 9. Improve stormwater management throughout the Plan area. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|-------------------------------------|---------------------------------------|--------------------------------|-------------|
| 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 6. Prevent land subsidence throughout the Region. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |

PART 5: RESOURCE MANAGEMENT STRATEGIES*

**Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)**

| | | | |
|---|------------------------------------|-----------------------------|--|
| Reduce Water Demands | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Agricultural Water Use Efficiency |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Urban Water Use Efficiency |
| Improve Operational Efficiency and Transfers | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Conveyance – Delta, Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | System Reoperation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Water Transfers |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Increase Water Supply | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Conjunctive Management and Groundwater Storage |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Desalination – Brackish/Seawater |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Precipitation Enhancement |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Recycled Municipal Water |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Surface Storage – CALFED or Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Improve Water Quality | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Drinking Water Treatment and Distribution |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Groundwater/Aquifer Remediation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Matching Quality to Use |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Pollution Prevention |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Salt and Salinity Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Urban Runoff Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State) _____ |

| Practice Resource Stewardship | | | |
|--------------------------------------|------------------------------------|-----------------------------|--|
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Agricultural Lands Stewardship |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Economic Incentives (loans, grants, water pricing) |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Ecosystem Restoration |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Forest Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Land Use Planning and Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Recharge Areas Protection |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Water-Dependent Recreation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Watershed Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Improve Flood Risk Management | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Flood Risk Management |
| Other Strategies | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Please State: _____ |

| | |
|---|--|
| Is the proposed project an element or phase of a regional or larger program? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If yes, please identify the program | _____ |

PART 6: PROJECT READINESS*

| Item | Status (e.g., not initiated, in process, complete, N/A) | Expected Completion Date |
|---------------------------------------|--|--------------------------|
| Conceptual Plans | _____ | _____ (mm/dd/yyyy) |
| Feasibility Study | _____ | _____ (mm/dd/yyyy) |
| Preliminary Design and Cost Estimates | _____ | _____ (mm/dd/yyyy) |
| CEQA/NEPA | _____ | _____ (mm/dd/yyyy) |
| Permits | _____ | _____ (mm/dd/yyyy) |
| Construction Drawings | _____ | _____ (mm/dd/yyyy) |
| Funding | _____ | _____ (mm/dd/yyyy) |

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

PART 7: PROJECT BENEFITS*

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?

Yes No Not Sure

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?

Yes No Not Sure

Does the project provide specific benefits to critical water issues for Native American tribal communities?

Yes No Not Sure

If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

| Adaptation to Climate Change | |
|---|---|
| <input type="checkbox"/> | Increases Water Supply Reliability |
| <input type="checkbox"/> | Advances/ Expands Conjunctive Management of Multiple Water Supply Sources |
| <input type="checkbox"/> | Increases Water Use and/or Reuse Efficiency |
| <input type="checkbox"/> | Provides Additional Water Supply |
| <input type="checkbox"/> | Promotes Water Quality Protection |
| <input type="checkbox"/> | Reduces Water Demand |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse |
| <input type="checkbox"/> | Addresses Sea Level Rise |
| <input type="checkbox"/> | Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: |
| <input type="checkbox"/> | Improves Flood Control (e.g. through wetlands restoration, management, protection) |
| <input type="checkbox"/> | Promotes Habitat Protection |
| | <input type="checkbox"/> Establishes Migration Corridors |
| | <input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity |
| | <input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds |
| | <input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems |
| | <input type="checkbox"/> Other (Please State): |
| <input type="checkbox"/> | Other (Please State): _____ |
| Reduces Greenhouse Gas Emissions and/or Energy Consumption | |
| <input type="checkbox"/> | Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency |
| <input type="checkbox"/> | Improves Water System Energy Efficiency |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand |
| <input type="checkbox"/> | Promotes Use of Renewable Energy Sources |
| <input type="checkbox"/> | Contributes to Carbon Sequestration (e.g. through vegetation growth) |
| <input type="checkbox"/> | Other (Please State): |

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): _____

Upper estimated total capital cost (\$): _____

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): _____

Design Life of Project (years): _____

Economic Feasibility

| | | |
|--|-----------------------------|-----------------------------------|
| Is the project cost-effective? | | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Sure |
| Does the project have a positive benefit-cost ratio? | | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Sure |

Appendix D.2

Project Lists

Appendix D.2a

Project Summary

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|--------------|------------------------|------------------|
| | | | | | | Project | | protection. |
| | | | | | | | | generation. |
| | | Management | Project | | | | | |
| | | Improvements | | District | | Construction | | |
| | | | | District | | | | protection. |
| | | Education | | District | | | | |
| | | Management | Project | District | | Study | | |
| | | Improvements | System | | | | | supply. |
| | | Recreation | | | | | | |

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|--------------|------------------------|------------------|
| | | Recharge | Project | | | Project | | recharge. |
| | | Recharge | | | | Project | | |
| | | | | | | Design | | |
| | | Recharge | | | | | | |
| | | Management | | | | | | damage. |
| | | | [Landers] | | | Project | | |
| | | | Ordinance | Bernardino | | Project | | |
| | | Management | Water | District | | | | |

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|--------------|------------------------|------------------|
| | | Management | | Association | | Construct | | damage. |
| | | Recharge | Strategy | | | | | recharge. |
| | | Recharge | project | | | | | recharge. |
| | | Management | | | | | | |
| | | Improvements | Expansion | | | Construction | | recharge. |
| | | | (SSME) | | | Project | | savings. |
| | | Improvements | | | | | | |
| | | Recharge | | | | Construction | | |
| | | Improvements | | District | | | | capacity. |
| | | | Project | District | | Program | | protection. |

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|---------------|------------------------|----------------------|
| | | Recharge | | District | | | | recharge. |
| | | Recreation | Acquisition | | | Project | | |
| | | Recharge | | | | Study | | supply. |
| | | | Quality | | | Feasibility | | recharge. |
| | | Education | Project | College | | Project | | reduction. |
| | | Improvements | pipelines | | | Project | | improvement/protecti |
| | | | | | | | | |
| | | | | | | Implementable | | |
| | | Education | | | | | | |

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|---------------|------------------------|------------------|
| | | Improvements | | | | | | overdraft. |
| | | | | | | | | |
| | | Improvements | | | | | | |
| | | Improvements | | | | | | prevention. |
| | | | | | | Implementable | | |
| | | | | | | | | |
| | | Improvements | Systems | Services | | | | |

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|----------------------|------------------------|------------------|
| | | | Program) | | | Project | | |
| | | Education | | | | Implementable | | savings. |
| | | Improvements | | District | | | | |
| | | | Network) | | | | | |
| | | Recharge | | | | | | |
| | | | | (MDRCD) | | Design/Implementable | | recharge. |
| | | Education | | District | | | | awareness. |
| | | Recharge | Ponds | MWA | | Design | | |

Mojave Region IRWM Plan Potential Projects (Project Summary)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Project Type | Estimated Project Cost | Project Benefits |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|--------------|------------------------|------------------|
| | | Recharge | | MWA | | Design | | |
| | | | | Committee | | | | supply. |
| | | Education | | | | Project | | |
| | | County | | | | Design | | damage. |

Appendix D.2b

Project Submittals Screened Out

Mojave Region IRWM Plan Potential Projects (Project Screened Out)

| Project No. | Original Project No. | Project Category | Project Title | Lead Agency/ Organization | Project Description | Reason for Recommendation |
|-------------|----------------------|------------------|---------------|---------------------------|---------------------|---------------------------|
| | | Recharge | | | | |
| | | Recreation | Enhancement | resident | downstream. | |
| | | | Adjudication | Hass | | withdrew. |
| | | Recreation | restoration | resident | | |
| | | Recharge | | District | | submittal. |
| | | | Project | District | communication. | submittal. |
| | | Improvements | | | | withdrew. |
| | | | Energy | | | |

Appendix D.2c

Ranked List of Projects

Appendix D.2d

Summary Table of Projects by Priority

Updated Projects Arranged by Proposed Priority*

| Tier 2 (L,H) | Tier 1 (M,H) | Tier 1 (H,H) |
|--------------|--------------|---|
| | | <p>GRI = 1</p> <p>1 e t F o</p> <p>6 w c</p> <p>(BDVWA a W</p> <p>9 w m t</p> <p>9 a e n</p> <p>Reclama s h</p> <p>1 o</p> <p>GRI = 2</p> <p>1</p> <p>Drinking</p> <p>3 t</p> <p>5 d e esperia)</p> <p>9 o e</p> <p>1 C r w</p> <p>1 e r N</p> <p>Affected o m</p> <p>1</p> <p>Systems</p> <p>1 S</p> <p>Conserva</p> <p>Acquisiti</p> <p>1 r i</p> <p>Hesperia</p> |
| Tier 4 (L,M) | Tier 3 (M,M) | Tier 2 (H,M) |
| | | <p>GRI=1</p> <p>1 C s &</p> <p>Restorat</p> <p>1 e g p</p> <p>Demons e a m</p> <p>1 r o s</p> <p>1 a n Hi-</p> <p>W</p> <p>GRI=2</p> <p>2 t</p> <p>3 e e l</p> |

| | | |
|----------------------------|--|--|
| | | <p>4 r</p> <p>6 a U E a</p> <p>7 n u m</p> <p>Expansion</p> <p>1 S e</p> <p>o a n</p> <p>Remova</p> <p>1 C p</p> <p>1 r</p> <p>1 t</p> <p>1 t t</p> <p>1 bandonment</p> <p>1 L o mprovements</p> |
| <p>Tier 4 (L,L)</p> | <p>Tier 4 (M,L)</p> <p>GR=3</p> <p>S</p> <p>e</p> <p>S</p> | <p>Tier 3 (H,L)</p> <p>GR=3 from (H,H)</p> <p>3 e v</p> <p>2 e r n</p> <p>2 a n</p> <p>3 a &</p> <p>4 e</p> <p>5 n W P</p> <p>5 i n t</p> <p>Restorat</p> <p>6 Conservation</p> <p>6 W w</p> <p>7 n W S</p> <p>E </p> <p>7 Infrastructur n</p> <p>Installati r</p> <p>9 c (a</p> <p>1 n D s</p> <p>1 W</p> <p>1 e h</p> <p>1 e M M n</p> <p>Judgmen</p> <p>1 S S</p> <p>Diversio</p> <p>1 S</p> <p>Program</p> <p>GRI = 3 from (H,M)</p> <p>2 l w V</p> <p>3 r o j</p> <p>3 e n</p> |

| | | | | | |
|--|--|---|----------|-------------|---------|
| | | 4 | r | a | vesting |
| | | 4 | o | e | |
| | | 5 | | h | t |
| | | 5 | | a | |
| | | 6 | | t | |
| | | 6 | | e | o |
| | | 6 | W | t | c o |
| | | | u | | |
| | | 8 | w | e | |
| | | 8 | m | Replacement | |
| | | 9 | o | W | t |
| | | 9 | | w | t |
| | | | Adelanto | | |
| | | 1 | | | |
| | | 1 | | | |
| | | | W | | |
| | | 1 | S | Q | o |
| | | | D | t | |
| | | 1 | | 6 | |
| | | 1 | | | o |
| | | | Arrowhe | | |
| | | 1 | | | |
| | | 1 | | r | n |
| | | | Multiple | | |
| | | 1 | b | d | u |

b 4

Appendix D.2e

Table of Projects by Number and Title

Appendix D.3

Project List Updates

Appendix D.4

Detailed Project Descriptions

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | | |
|--|--|--|--|---|---------------------------------|
| Project Name: | Ames/Reche Groundwater Storage and Recovery Program - Phase II Expansion | | | | |
| Project Sponsor: | MWA & BDVWA | | | | |
| If Joint Project, Other Partners: | HDWD (specifically seeking additional recharge capacity), BDVWA, County CSA 70 Zone W-1 (Landers) and Zone W-4 (Pioneertown) | | | | |
| Project Website (if available): | | | | | |
| Project Contact Person: | Phone | FAX | Email | | |
| Project Description | | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | | |
| Conceptual | | | | | |
| Project Description (1-2 sentences): | | | | | |
| Expand the Ames/Reche Recharge Facility to accommodate the maximum potential delivery capacity of 3,000 AF/Yr. (currently permitted for 1,500 AF/Yr.). Pre-planning for expansion could include percolation tests to determine necessity for expansion of the existing BLM Lease, engineering design to minimize footprint and optimize percolation potential, CEQA and NEPA for Phase II. | | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | | |
| Integrates into existing Ames/Reche Groundwater Storage and Recovery Program which was constructed to the benefit of multiple entities: Hi Desert Water District, County Service Areas W-1 (Landers) and W-4 (Pioneertown), Mojave Water Agency and Bighorn-Desert View Water Agency. | | | | | |
| Project Source (Cite Plan(s) to which the project belongs (e.g., Watershed Master Plans, Capital Improvement Plans): | | | | | |
| MWA 2013/14 Integrated Regional Water Management Plan | | | | | |
| Project Location | | | | | |
| Descriptive (Description of property location etc.): | | | | | |
| Existing facility is located within Pipes Wash where it intersects Winters Road (Tracy Blvd.). | | | | | |
| Latitude/Longitude - info available at | http://geocoder.us/ | Lat: 34.23696 | Long: -116.414156 | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> | |
| Project Status (Check all that apply): | | | | | |
| | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Estimated Year of Completion: | As needed | | | | |

| Project Benefits | | | |
|---|-------------------------------------|---|--|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input checked="" type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: | Yes | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N):</i> | Multi-benefit Y/N: | | |
| Multi-stakeholder project/regional collaboration | Y/N: | Yes | |
| Climate Change: <i>Helps assess potential impacts (Y/N):</i> | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| Increases the ability of the participating entities to pre-store State Water Project supplies during seasons of surplus to reduce annual dependency on State Water Project. | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. Second. | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|---|--|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Drought Preparedness | | |
| <input type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input checked="" type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input checked="" type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input checked="" type="checkbox"/> | Include Regional Projects or Programs | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input checked="" type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input checked="" type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input checked="" type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input checked="" type="checkbox"/> | Recharge Areas Protection |
| <input checked="" type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input checked="" type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> | Groundwater/Aquifer Remediation | <input checked="" type="checkbox"/> | Water Transfers |
| <input checked="" type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input checked="" type="checkbox"/> | Watershed Management |



Mojave Integrated Regional Water Management Plan
Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|---|--|--|---|--|
| Project Name: | Camp Cady: Tamarisk removal and riparian habitat restoration program | | | |
| Project Sponsor: | Mojave Desert Resource Conservation Dist (MDRCD) | | | |
| If Joint Project, Other Partners: | CA Dept. of Fish and Wildlife (Department); Quail Forever; Mojave Water Agency | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Chuck Bell | 760-964-3118 | | chuckb@sisp.net | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Implementable project | | | | |
| Project Description (1 -2 sentences): | | | | |
| Invasive species (tamarisk) removal, expansion/improvement of endangered Mohave tui chub habitat and implementation of a sustainable engineered riparian habitat irrigation system. | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| Continuation of current invasive species eradication/control being done in the Mojave River. Could work with a network of education/environmental stewardship programs in region. | | | | |
| Project Source (Cite Plan(s) to which the project belongs (e.g., Watershed Master Plans, Capital Improvement Plans)): | | | | |
| Consistent with the Department's Mojave River Plan and focuses on Exhibit H riparian locations if the Mojave Basin Judgment. | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| Camp Cady (Department property) - Newberry Springs | | | | |
| Latitude/Longitude - info available at: | http://geocoder.us/ | Lat: | Long: | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> |
| Project Status (Check all that apply): | Conceptual <input type="checkbox"/> | In-Design <input checked="" type="checkbox"/> | Ready to Implement <input checked="" type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |
| Estimated Year of Completion: | | | | |

| Project Benefits | | | |
|--|---|---|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: Yes | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | 500-1000 acre restoration | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N):</i> | Possible | | Multi-benefit Y/N: Yes |
| Multi-stakeholder project/regional collaboration | Y/N: Yes | | |
| Climate Change: <i>Helps assess potential impacts (Y/N):</i> | No | | |
| Environmental Stewardship/Public Awareness | <i>Direct Benefits:</i> Protect and Restore valuable riparian habitat on public lands | | |
| <i>Other: (Describe X amount of benefit)</i> | | | |
| Protect/restore endangered Mohave tui chub ponds, provide food and cover for indigenous and migrating wildlife, improve waterfowl/game bird habitat. Improve the land for greater benefit to stressed flora and fauna, increase awareness, education and responsible multi-benefit use of high quality public lands. | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|--|--|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Drought Preparedness | | |
| <input type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input checked="" type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input checked="" type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input checked="" type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input checked="" type="checkbox"/> | Include Regional Projects or Programs | | |
| <input type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input checked="" type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input checked="" type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input checked="" type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input checked="" type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input type="checkbox"/> | Watershed Management |



Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|--|---|--|--|---|
| Project Name: | Commercial/Industrial/Multi-Family Cash for Grass Program | | | |
| Project Sponsor: | Alliance for Water Awareness and Conservation | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Nicholas Schneider | 760-946-7038 | | nschneider@mojavewater.org | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Implemental Program | | | | |
| Project Description (1 -2 sentences): | | | | |
| This project would expand the scope of turf removal projects in the Mojave region. Currently, there is a \$10,000 rebate cap for commercial, industrial, and multi-family units. This has discouraged larger scale landscape conservation projects. - The savings this project can expect is approximately 55 gallons of water saved per year per square foot of grass removed. this would increase our water savings throughout the region based on how much participation we receive in the process. | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| This project would expand the current Cash for Grass program, as well as serve as a companion program for a proposed commercial demonstration garden project proposed by MWA. | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | |
| | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| The Mojave Water Agency boundaries. | | | | |
| Latitude/Longitude - info available at: | http://geocoder.us/ | Lat: | Long: | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> |
| Project Status (Check all that apply): | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete <input type="checkbox"/> |
| N/A <input type="checkbox"/> | | | | |
| Estimated Year of Completion: | | | | |
| Funding will determine the life of the program | | | | |

| Project Benefits | | | | |
|---|-------------------------------------|---|--------------------------|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF <input checked="" type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: | | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : | | | Multi-benefit Y/N: | |
| Multi-stakeholder project/regional collaboration | Y/N: | | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : | | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: could be used to | | | |
| Other: (<i>Describe X amount of benefit</i>) | | | | |
| | | | | |
| Project Criteria | | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | | |
| IRWM Plan Objectives Met | | | | |
| Prim. | Second. | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | | |

| Statewide Priorities | | | |
|--|--|--------------------------|----------------------------------|
| <input type="checkbox"/> | Drought Preparedness | | |
| <input type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input type="checkbox"/> | Include Regional Projects or Programs | | |
| <input type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input checked="" type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY **August 1, 2013** to comments@mywaterplan.com. Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Mojave Water Agency in cooperation/partnership Hinkley partnership for healthy living "HPhL"

Agency / Organization / Individual Address:

Mojave Water Agency
13846 Conference Center Drive
Apple Valley, CA 92307

Possible Partnering Agencies:

19816 Hwy 58 sp#9 Hinkley ca,92347

Name: *

Lester Steven White

Title:

Telephone: *

760-253-5288

Fax:

Email: *

lestersw@live.com

Website:

Project Name: *

Conceptual Planning for Hinkley's Community Drinking Water System

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

| | |
|------------------------------|---|
| Location Description: | Hinkley is located in San Bernardino County, about eight miles west of the town of Barstow. |
|------------------------------|---|

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

| |
|---|
| • |
| • |
| • |
| • |

Project Status (e.g., new, ongoing, expansion, new phase):

| |
|-----|
| new |
|-----|

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

| |
|------------|
| Conceptual |
|------------|

PART 2: PROJECT NEED*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

This project is needed to evaluate the concept of designing, then building a water system for the disadvantaged community of Hinkley. Drinking water contamination resulting from the operation of a nearby Pacific Gas and Electric Company (PG&E) compressor station has devastated the community – many residents opted to leave resulting in community impacts such as closure of its school. After many years of controversy, serious health issues and legal battles, remediation measures are underway, including replacement water provided by PG&E for many residents. A community water system with a water source not impacted by the contamination plume would allow residents to resume independent control over its own water supply plus help to rebuild a sense of community in Hinkley.

Additionally, members of the community not affected by the chromium contamination rely on an unpredictable groundwater source supplied through individual private domestic wells. In many situations, groundwater levels drop each summer producing lower yield. At many locations, well are impacted by other contaminants such as arsenic, manganese, uranium, nitrates and total dissolved solids. These contaminants

likely are present due to a combination of natural and/or possibly past and present human land uses such as agriculture and septic systems.

The community of Hinkley is located in San Bernardino County, about eight miles west of the town of Barstow. Pacific Gas and Electric Company (PG&E) has operated a natural gas compressor station in Hinkley since 1952. From 1952 to 1965, hexavalent chromium-based corrosion inhibitor was added to water used in the cooling towers. The untreated cooling-tower water was discharged to unlined evaporation ponds and percolated to groundwater. The unlined ponds have since been closed, covered, and replaced by lined evaporation ponds. Total chromium (CrT) and hexavalent chromium (CrVI) concentrations exceeding the California drinking water standard of 50 parts per billion (ppb) total chromium have been detected in groundwater beneath and down gradient of the site since 1987. Currently, the plume extends over six miles northward from the compressor station, and concentrations of CrVI near the contamination source area are present in groundwater up to 4,500 ppb. Groundwater is the sole water supply source for the community of Hinkley.

PG&E provides bottled water to all residents within one mile of the chromium plume, and under Water Board orders, has begun a “whole-house” replacement water program for residences in Hinkley whose wells show detectable amounts of chromium. The whole-house water program uses ion exchange units combined with reverse osmosis filters at each household tap to provide water for all indoor domestic uses. PG&E is only required to maintain ion exchange for five year’s. The water quality is required to meet all state and/or federal drinking water standards, and must contain no more than 0.06 ppb CrVI (the current laboratory detection limit for CrVI).

A water supply alternative to bottled water and “whole-house” replacement water is important to restore vitality to the community. Further, other members of the community not currently eligible for PG&E replacement water have no alternatives for limited water supply and poor water quality issues they are facing. Exploration into the concept of developing a community water system that draws water from a source not affected by the chromium plume is needed.

PART 3: PROJECT DESCRIPTION*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Project Name: Conceptual Planning for Hinkley’s Community Drinking Water System

Project Concept: Evaluate the concept of designing, then building a water system for

the disadvantaged community of Hinkley.

Project Description: Evaluate the concept of a community water system that draws water from a source of water that is not affected by the chromium plume. The water source must not be affected by plume expansion, remedial byproducts, or groundwater drawdown for the lifetime of the source and must be able to meet the water quality requirements. Water systems options, estimated costs and potential financing mechanisms will be included as part of the project. At least one community meeting will be conducted to present project results and to raise community awareness of a potential future water system.

Options for the water supply to be evaluated include (but are not limited to):

- Use of wells upgradient or otherwise unaffected by the chromium plume or remediation, combined with a system of pipelines to water recipients. For example, wells near the Mojave River are upgradient of the chromium plume, are consistently productive, and could be potential candidates for a well source. There may be naturally-occurring constituents, such as arsenic, that might require pre-treatment before providing as a drinking water system.
- Use of a connection to Golden State Water Company which could involve an estimated 12-15 mile pipeline to tie into.
- Use of a connection to the Mojave Water Agency (MWA) recharge pipeline located along Community Blvd. The MWA recharge pipeline derives water from the California aqueduct and MWA would have to acquire adequate rights to water to provide it as local water supply. If this water is unable to meet drinking water standards in its original state, it may require treatment before distribution as a water source. This option also requires an additional water supply source to serve as a contingency if the MWA water cannot be provided since it is not guaranteed to be available.

In addition to evaluating the technical feasibility of developing a safe and reliable water source, the project will also evaluate potential challenges to implementing a water system in a small community like Hinkley such as:

- According to the EPA, very small systems (those serving 25 to 500 people) have the largest number of violations (mostly monitoring/reporting violations), and they experience one maximum Contaminant Level Violation for every 80 people served, which is the highest ratio of all system service population categories. By comparison, large urban systems (serving more than 100,000 people) experience one Maximum Contaminant Level violation for every 200,000 people served (EPA 2012b)¹.
- The California Department of Public Health (CDPH) has regulatory authority over community water systems. Under the provisions of Section 116330 of

¹ See <http://www.epa.gov/nrmrl/wswrd/dw/smallsystems/regulations.html>.

the California Health and Safety Code, CDPH has delegated approval of small water systems with less than 200 connections to local primary agencies, which in this case would be the San Bernardino County Public Health Department, Division of Environmental Health Services. A permit application for a community water system would require comprehensive technical, managerial, and financial assessments to gain CDPH (if more than 200 connections) or San Bernardino County (if less than 200 connections) approval. In order to be approved, small water systems must demonstrate that they can be sustainable for the long term.

- An additional concern is the long lead time to implement a community water system, given the approval and review process, and more extensive construction activities than other options, which could take as long as 5 years.
- Hinkley is dominated by rural residences, many of which are highly dispersed, which increases the amount of per connection piping, pumping, and construction costs.
- Some individuals in Hinkley may prefer a community water system, but other individuals may prefer the independence of their own well, which may complicate the implementation.

This project will include cost estimates of all options evaluated. Possible financing mechanisms for a community water system will also be included as part of this project. Lastly, the project will include at least one community meeting to present project results and to raise community awareness of a potential future water system.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

| |
|---|
| ● Mojave Groundwater Basin – Centro Sub-Basin |
| ● |
| ● |
| ● |

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

| |
|---|
| ● Final EIR Comprehensive Groundwater Cleanup Strategy for Historical Chromium Discharges from PG&E's Hinkley Compressor Station, San Bernardino County (April 2013) |
| ● Cleanup and Abatement Order No. R6V-2008-0002-A4 (as amended) |
| ● Lahontan Regional Board Staff Report -- Background Chromium Study; Pacific Gas and Electric Company Compressor Station; 35863 Fairview Road; Hinkley (August 2008) Feasibility Study Status Report Pursuant to Ordering Paragraph 2.b. of |

- Amended Cleanup and Abatement Order No. R6V-2011-0005A1

How do you rate the technical feasibility of the proposed project?

| | |
|--|---|
| <input checked="" type="checkbox"/> High | The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results. |
| <input type="checkbox"/> Medium | The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success. |
| <input type="checkbox"/> Low | The project has not been done before and technical feasibility is not adequately documented. |

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|-------------------------------------|---------------------------------------|--------------------------------|--|
| 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |
| 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |
| 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | x Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | This project will evaluate the concept of designing, then building a water system for the disadvantaged community of Hinkley |
| 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |
| 9. Improve stormwater management throughout the Plan area. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |
| 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |
| 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |
| 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | x NA | |

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|-------------------------------------|--|---|---|
| 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | This project will identify and evaluate the development of a small community water system to supply safe and reliable water source. |
| 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Costs and possible financing mechanisms for a community water system will be included as part of this project. |
| 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | The project will include at least one community meeting to present project results and to raise community awareness of a potential future water system. |
| 6. Prevent land subsidence throughout the Region. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |

PART 5: RESOURCE MANAGEMENT STRATEGIES*

**Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)**

| Reduce Water Demands | | | |
|---|---|--|--|
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Agricultural Water Use Efficiency |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Urban Water Use Efficiency |
| Improve Operational Efficiency and Transfers | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conveyance – Delta, Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | System Reoperation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water Transfers |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Increase Water Supply | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conjunctive Management and Groundwater Storage |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Desalination – Brackish/Seawater |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Precipitation Enhancement |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Recycled Municipal Water |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Surface Storage – CALFED or Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Improve Water Quality | | | |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Drinking Water Treatment and Distribution |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Groundwater/Aquifer Remediation |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Matching Quality to Use |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Pollution Prevention |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Salt and Salinity Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Urban Runoff Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State) _____ |

| Practice Resource Stewardship | | | |
|--------------------------------------|---|--|--|
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Agricultural Lands Stewardship |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Economic Incentives (loans, grants, water pricing) |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Ecosystem Restoration |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Forest Management |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Land Use Planning and Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Recharge Areas Protection |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water-Dependent Recreation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Watershed Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Improve Flood Risk Management | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Flood Risk Management |
| Other Strategies | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Please State: _____ |

| | |
|---|---|
| Is the proposed project an element or phase of a regional or larger program? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If yes, please identify the program | _____ |

PART 6: PROJECT READINESS*

| Item | Status (e.g., not initiated, in process, complete, N/A) | Expected Completion Date |
|---------------------------------------|--|--------------------------|
| Conceptual Plans | not initiated | _____ (mm/dd/yyyy) |
| Feasibility Study | not initiated | _____ (mm/dd/yyyy) |
| Preliminary Design and Cost Estimates | not initiated | _____ (mm/dd/yyyy) |
| CEQA/NEPA | not initiated | _____ (mm/dd/yyyy) |
| Permits | not initiated | _____ (mm/dd/yyyy) |
| Construction Drawings | not initiated | _____ (mm/dd/yyyy) |
| Funding | not initiated | _____ (mm/dd/yyyy) |

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

The establishment of a new nonprofit organization to promote the development of a community water system for Hinkley is pending. Once established, this entity will work with the Mojave IRWM Group partners to seek resources to evaluate the concept of designing, then building a water system for the disadvantaged community of Hinkley.
Hinkley Partnership for healthy living

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

No. Potential implementation funding mechanisms will be included as part of the project.

PART 7: PROJECT BENEFITS*

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This project is needed to evaluate the concept of designing, then building a water system for the disadvantaged community of Hinkley. Drinking water contamination resulting from the operation of a nearby Pacific Gas and Electric Company (PG&E) compressor station has devastated the community – many residents opted to leave resulting in community impacts such as closure of its school. After many years of controversy, serious health issues and legal battles, remediation measures are underway, including replacement water provided by PG&E for many residents. A community water system with a water source not impacted by the contamination plume would allow residents to resume independent control over its own water supply plus help to rebuild a sense of community in Hinkley.

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?
 Yes No Not Sure

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?
 Yes No Not Sure

Does the project provide specific benefits to critical water issues for Native American tribal communities?
 Yes No Not Sure

If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

| Adaptation to Climate Change | |
|---|--|
| <input checked="" type="checkbox"/> | Increases Water Supply Reliability – This project may result in a more reliable local water supply for the community of Hinkley. |
| <input type="checkbox"/> | Advances/ Expands Conjunctive Management of Multiple Water Supply Sources |
| <input type="checkbox"/> | Increases Water Use and/or Reuse Efficiency |
| <input type="checkbox"/> | Provides Additional Water Supply |
| <input type="checkbox"/> | Promotes Water Quality Protection |
| <input type="checkbox"/> | Reduces Water Demand |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse |
| <input type="checkbox"/> | Addresses Sea Level Rise |
| <input type="checkbox"/> | Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: |
| <input type="checkbox"/> | Improves Flood Control (e.g. through wetlands restoration, management, protection) |
| <input type="checkbox"/> | Promotes Habitat Protection |
| | <input type="checkbox"/> Establishes Migration Corridors |
| | <input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity |
| | <input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds |
| | <input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems |
| | <input type="checkbox"/> Other (Please State): |
| <input type="checkbox"/> | Other (Please State): _____ |
| Reduces Greenhouse Gas Emissions and/or Energy Consumption | |
| <input type="checkbox"/> | Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency |
| <input type="checkbox"/> | Improves Water System Energy Efficiency |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand |
| <input type="checkbox"/> | Promotes Use of Renewable Energy Sources |
| <input type="checkbox"/> | Contributes to Carbon Sequestration (e.g. through vegetation growth) |
| <input type="checkbox"/> | Other (Please State): |

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

An estimate of total capital cost for project implementation will be developed as part of the project.

Lower estimated total capital cost (\$): NA **LESTER: you may want to supply some initial cost estimates, but not required**

Upper estimated total capital cost (\$): NA

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): NA

Annual Operation and Maintenance Cost (\$): NA

Design Life of Project (years): NA

Economic Feasibility

| | | |
|--|-----------------------------|--|
| Is the project cost-effective? | | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Sure |
| Does the project have a positive benefit-cost ratio? | | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Sure |

Mojave Integrated Regional Water Management Plan Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY **August 1, 2013** to comments@mywaterplan.com. Items denoted with an asterisk are required.

PART I: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Mojave Desert Resource Conservation District (MDRCD) and Natural Resource Conservation Service(NRCS-USDA)

Agency / Organization / Individual Address:

15415 Sand St. St. 103 Victorville, CA 92392 (Both RCD and NRCS)

Possible Partnering Agencies:

Lahontan WQCB – Western United Dairymen

Name: *

Chuck Bell

Title:

Pres. - MDRCD

Telephone: *

760 964 3118

Fax:

Email: *

chuckb@sisp.net

Website:

Project Name: *

Dairy Nitrate Reduction

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

| | |
|------------------------------|---|
| Location Description: | Various dairies within the Mojave River Basin – Helendale/Barstow region/etc. |
|------------------------------|---|

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

| |
|----------------|
| • Stated above |
| • |
| • |
| • |

Project Status (e.g., new, ongoing, expansion, new phase):

| |
|------------------------|
| On-going and new phase |
|------------------------|

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

| |
|--|
| Implementable – in association with the IRWMP’s Salt Mgt. Plan - with Lahontan concurrence |
|--|

PART 2: PROJECT NEED*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Piled manure from dairies and feed lots can – even with the area’s limited precipitation – leach nitrates/salts/etc. to ground and surface waters. Groundwater underlying dairies in the Mojave River Basin is often shallow – sometimes just a few feet below the surface. Some dairies do not have sufficient acreage on or near their farms to apply their manure for field crops used to uptake nitrogen, etc. The cost of long-distance manure hauling – let alone just the cost of loading trucks – is often more than dairies can economically bear – especially with California’s milk pricing system and regulations.

Nitrate-laden drainage from cow washing and corral flushing is normally held in ponds (some are unlined) – for future application to fields – percolating nitrates, etc. into groundwater.

All 8 dairies are currently under a Lahontan “order” to reduce nitrate leaching. The MDRCD and NRCS are working with Lahontan – with NRCS completing 5 “Comprehensive Nutrient Management Plans” (CNMPs) - designed to alleviate on-site nitrate concentrations.

PART 3: PROJECT DESCRIPTION*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Obtain funding – to be matched with NRCS/USDA funding – a possible 25% contribution – to:

- 1) Help dairies pay to haul manure off-site – likely to fields distant from shallow groundwater and surface waters.
- 2) Help fund infrastructure designed to apply waste pond water directly to adjacent fields via irrigation systems, etc. – alleviating direct percolation to groundwater.

Requires manure “manifest” to track movement and use of nutrients. BMP to effectively use nutrients – applied at agronomic rates.

- 3) Feasibility study? to determine alternate uses of manure for fuels – ie: composting/digestion/gasification – what can be done on a regional basis – work in conjunction with VVWRA, etc.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

| |
|--|
| <ul style="list-style-type: none"> • Mojave River Basin surface and groundwater |
| <ul style="list-style-type: none"> • |
| <ul style="list-style-type: none"> • |
| <ul style="list-style-type: none"> • |

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

| |
|--|
| • 5 CNMPs performed by NRCS |
| • Lahontan WQCB's orders and documents |
| • Numerous water quality tests |

How do you rate the technical feasibility of the proposed project?

| | |
|--|---|
| <input checked="" type="checkbox"/> High | The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results. |
| <input type="checkbox"/> Medium | The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success. |
| <input type="checkbox"/> Low | The project has not been done before and technical feasibility is not adequately documented. |

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|--|--|---|--|
| 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Some dairies are within DACs |
| 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Reduce nitrate levels in groundwater |
| 9. Improve stormwater management throughout the Plan area. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Storm flow runoff from corrals into ponds can be removed more quickly |
| 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Improves water quality for downstream beneficial uses |
| 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | To match NRCS/USDA funding that only covers @ 50% of a project – assuming it is attainable |

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|-------------------------------------|--|---|--|
| 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Pond to field irrigation infrastructure will have some benefit |
| 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Waste pond water recycled to fields instead of percolating and evaporating |
| 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Provides opportunities to educate students, etc. re: water quality and pollution prevention. |
| 6. Prevent land subsidence throughout the Region. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |

PART 5: RESOURCE MANAGEMENT STRATEGIES*

**Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)**

| Reduce Water Demands | | | |
|---|---|--|---|
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Agricultural Water Use Efficiency |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Urban Water Use Efficiency |
| Improve Operational Efficiency and Transfers | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conveyance – Delta, Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | System Reoperation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water Transfers |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): <u>Operational efficiency of dairies</u> |
| Increase Water Supply | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conjunctive Management and Groundwater Storage |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Desalination – Brackish/Seawater |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Precipitation Enhancement |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Recycled Municipal Water |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Surface Storage – CALFED or Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Improve Water Quality | | | |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Drinking Water Treatment and Distribution - improves downstream groundwater quality |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Groundwater/Aquifer Remediation - quality remediation |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Matching Quality to Use - above |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Pollution Prevention |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Salt and Salinity Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Urban Runoff Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State) _____ |

| Practice Resource Stewardship | | | |
|---|---|--|--|
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Agricultural Lands Stewardship |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Economic Incentives (loans, grants, water pricing) |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Ecosystem Restoration |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Forest Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Land Use Planning and Management |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Recharge Areas Protection |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water-Dependent Recreation |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Watershed Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Improve Flood Risk Management | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Flood Risk Management |
| Other Strategies | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Please State: _____ |

| |
|---|
| <p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, please identify the program: Stated above – on-going project involving Lahontan, et al</p> <p>_____</p> |

PART 6: PROJECT READINESS*

| Item | Status (e.g., not initiated, in process, complete, N/A) | Expected Completion Date |
|---------------------------------------|---|--|
| Conceptual Plans | _____ | _____ (mm/dd/yyyy) |
| Feasibility Study | _____ Use of manure for fuels (composting/digestors/gasification/etc). | _____ Depends on funding (mm/dd/yyyy) |
| Preliminary Design and Cost Estimates | _____ Via CNMPs – 5 completed | _____ More anticipated? (mm/dd/yyyy) |
| CEQA/NEPA | _____ Exempt | _____ (mm/dd/yyyy) |
| Permits | _____ Likely just Lahontan | _____ ?? (mm/dd/yyyy) |
| Construction Drawings | _____ Via CNMPs | _____ (mm/dd/yyyy) |
| Funding | _____ Potential NRCS/USDA | _____ ?? (mm/dd/yyyy) |

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

Manure hauling just requires trucks and drivers – likely available.

Construction of “pond to field” improvement systems would be on-going – not considered “major” construction projects.

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

Prop 84 – some match to NRCS/USDA funding (EQIP, etc.)

Possible funding via the Salt Mgt. Plan?

PART 7: PROJECT BENEFITS*

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Intent is to meet Lahontan's water quality objectives – state/federal levels – etc. - for nitrates, salts, etc.

Alleviate any nitrate levels in groundwater from dairies.

Reduce/eliminate need for dairies to fund/provide drinking water for downstream pumpers per Lahontan's order.

Benefit to the substance of IRWMP's Salt Mgt. Plan

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?

Yes No Not Sure

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?

Yes No Not Sure

Does the project provide specific benefits to critical water issues for Native American tribal communities?

Yes No Not Sure

If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

| Adaptation to Climate Change | |
|---|---|
| <input type="checkbox"/> | Increases Water Supply Reliability |
| <input type="checkbox"/> | Advances/ Expands Conjunctive Management of Multiple Water Supply Sources |
| <input type="checkbox"/> | Increases Water Use and/or Reuse Efficiency |
| <input type="checkbox"/> | Provides Additional Water Supply |
| X <input type="checkbox"/> | Promotes Water Quality Protection |
| <input type="checkbox"/> | Reduces Water Demand |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse |
| <input type="checkbox"/> | Addresses Sea Level Rise |
| <input type="checkbox"/> | Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: |
| <input type="checkbox"/> | Improves Flood Control (e.g. through wetlands restoration, management, protection) |
| <input type="checkbox"/> | Promotes Habitat Protection |
| | <input type="checkbox"/> Establishes Migration Corridors |
| | <input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity |
| | <input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds |
| | <input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems |
| | <input type="checkbox"/> Other (Please State): |
| <input type="checkbox"/> | Other (Please State): _____ |
| Reduces Greenhouse Gas Emissions and/or Energy Consumption | |
| <input type="checkbox"/> | Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency |
| <input type="checkbox"/> | Improves Water System Energy Efficiency |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand |
| <input type="checkbox"/> | Promotes Use of Renewable Energy Sources |
| <input type="checkbox"/> | Contributes to Carbon Sequestration (e.g. through vegetation growth) |
| <input type="checkbox"/> | Other (Please State): |

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): Wastewater application infrastructure: @250K/dairy. Digesters/gasification/etc: @1M – Might serve a number of dairies, depending on distance.

Upper estimated total capital cost (\$): Wastewater application infrastructure: @500K/dairy_____

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
NA_____

Annual Operation and Maintenance Cost (\$): Manure hauling and tipping fees – @\$30/ton.

Total hauling cost depends on how many dairies participate – travel distance – etc.

Design Life of Project (years): ??

Economic Feasibility

| | | |
|--|-----------------------------|-------------------------------------|
| Is the project cost-effective? | | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | X <input type="checkbox"/> Not Sure |
| Does the project have a positive benefit-cost ratio? | | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | X <input type="checkbox"/> Not Sure |

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|--|---|--|--|--|
| Project Name: | Deep Creek Off-River Recharge And Storage Basins | | | |
| Project Sponsor: | Mojave Water Agency | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Darrell Reynolds and Tony Winkel | 760-946-7023 | 760-240-2001 | dreynolds@mojavewater.org | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Conceptual Design | | | | |
| Project Description (1-2 sentences): | | | | |
| Off River recharge and storage basins on the Deep Creek Properties | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| The R3 Project pumps from recharge in the Mojave River. The MWA recharges water into the Mojave River along Deep Creek Road south of Rock Springs Road. In conjunction with recharge in the river, off river basins could be constructed that can be filled from the Morongo basin pipeline. | | | | |
| Project Source (Cite Plan(s) to which the project belongs (e.g., Watershed Master Plans, Capital Improvement Plans)): | | | | |
| | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| 7620 Deep Creek Rd, Apple Valley Ca | | | | |
| Latitude/Longitude - info available at: http://geocoder.us/ | Lat: 34dgs 23' 13.20" | Long: 117dgs 14' 22.4" | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> |
| Project Status (Check all that apply): | | | | |
| | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |
| Estimated Year of Completion: | | | | |
| | | | | |

| Project Benefits | | | |
|---|--------------------------|---|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : | Multi-benefit Y/N: | | |
| Multi-stakeholder project/regional collaboration | Y/N: | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|---|--|--------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Drought Preparedness | | |
| <input type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input checked="" type="checkbox"/> | Include Regional Projects or Programs | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY **August 1, 2013** to comments@mywaterplan.com. Items denoted with an asterisk are required.

PART I: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Town of Apple Valley, Engineering Department, Brad Miller PE, Town Engineer

Agency / Organization / Individual Address:

Town of Apple Valley, 14955 Dale Evans Parkway, Apple Valley, CA 92307

Possible Partnering Agencies:

Mojave Water Agency, San Bernardino County Flood Control District, Zone 4

Name: *

Brad Miller, PE

Title:

Town Engineer

Telephone: *

(760) 240-7000

Fax:

(760) 240-7399

Email: *

bmillier@applevalley.org

Website:

Project Name: *

Dry Well Installation Program, Town wide, Town of Apple Valley

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

| | |
|------------------------------|--|
| Location Description: | |
|------------------------------|--|

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

| |
|--|
| • Mojave Water Agency, Scott Weldy |
| • San Bernardino County Flood Control, Kevin Blakeslee |
| • |
| • |

Project Status (e.g., new, ongoing, expansion, new phase):

| |
|--|
| New Phase of ongoing Dry Well Installation Program |
|--|

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

| |
|---|
| Implementation of Program, New Phase of ongoing Program |
|---|

PART 2: PROJECT NEED*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

| |
|---|
| <p><u>Describe the Project Need:</u></p> |
|---|

[Empty rectangular box for project submittal content]

PART 3: PROJECT DESCRIPTION*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

| |
|---|
| <ul style="list-style-type: none"> • The Apple Valley Dry Lake |
| <ul style="list-style-type: none"> • All underground basins recharged from areas tributary to the Apple Valley Dry Lake. |
| <ul style="list-style-type: none"> • |
| <ul style="list-style-type: none"> • |

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

| |
|---|
| <ul style="list-style-type: none"> • Apple Valley Town Council Agenda Report on Town-wide flooding, 2010-2011. |
| <ul style="list-style-type: none"> • Apple Valley Award of Contract for recent Drywell construction project. |
| <ul style="list-style-type: none"> • Apple Valley Standard Dry Well Design and Specifications |

How do you rate the technical feasibility of the proposed project?

| | |
|--|---|
| <input checked="" type="checkbox"/> High | The technical feasibility is well-documented and is based on similar successful |
|--|---|

| | |
|---------------------------------|---|
| | projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results. |
| <input type="checkbox"/> Medium | The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success. |
| <input type="checkbox"/> Low | The project has not been done before and technical feasibility is not adequately documented. |

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

| Mojave IRWM Plan Objective | Contribution | | | Description |
|----------------------------|--|--|---|---|
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Project will enhance groundwater recharge through storm water capture and infiltration, improving sustainability. |
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Project will improve stability of the Apple Valley Underground Aquifer by enhancing storm water capture and infiltration. |
| | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Project will reduce flooding while improving storm water capture and infiltration. |
| | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |

| Mojave IRWM Plan Objective | Contribution | | | Description |
|----------------------------|--|--|---|-------------|
| | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |

PART 5: RESOURCE MANAGEMENT STRATEGIES*

**Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)**

| Reduce Water Demands | | | |
|---|---|--|--|
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Agricultural Water Use Efficiency |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Urban Water Use Efficiency |
| Improve Operational Efficiency and Transfers | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conveyance – Delta, Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | System Reoperation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water Transfers |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Increase Water Supply | | | |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Conjunctive Management and Groundwater Storage |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Desalination – Brackish/Seawater |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Precipitation Enhancement |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Recycled Municipal Water |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Surface Storage – CALFED or Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Improve Water Quality | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Drinking Water Treatment and Distribution |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Groundwater/Aquifer Remediation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Matching Quality to Use |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Pollution Prevention |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Salt and Salinity Management |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Urban Runoff Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State) _____ |

| Practice Resource Stewardship | | | |
|---|---|--|--|
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Agricultural Lands Stewardship |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Economic Incentives (loans, grants, water pricing) |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Ecosystem Restoration |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Forest Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Land Use Planning and Management |
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Recharge Areas Protection |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water-Dependent Recreation |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Watershed Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Other (Please State): _____ |
| Improve Flood Risk Management | | | |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Flood Risk Management |
| Other Strategies | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Please State: _____ |

| | |
|---|---|
| Is the proposed project an element or phase of a regional or larger program? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If yes, please identify the program | <u>This will be a new Phase of an existing Town wide program to install dry wells in flood prone areas.</u> |

PART 6: PROJECT READINESS*

| Item | Status (e.g., not initiated, in process, complete, N/A) | Expected Completion Date |
|---------------------------------------|--|--------------------------|
| Conceptual Plans | <u>Completed</u> | _____ (mm/dd/yyyy) |
| Feasibility Study | <u>Completed</u> | _____ (mm/dd/yyyy) |
| Preliminary Design and Cost Estimates | <u>Completed</u> | _____ (mm/dd/yyyy) |
| CEQA/NEPA | <u>Completed</u> | _____ (mm/dd/yyyy) |
| Permits | _____ | _____ (mm/dd/yyyy) |
| Construction Drawings | <u>Completed</u> | _____ (mm/dd/yyyy) |
| Funding | <u>Initiated</u> | _____ (mm/dd/yyyy) |

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

Funding for this ongoing program has historically come from Town Developer Impact Fees, (Drainage Impact Fee component). This application is to request additional grant funding to supplement the current Town funding and expand the program.

PART 7: PROJECT BENEFITS*

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

| |
|---|
| Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Sure |
| Does the project address critical water issues (including water supply or water quality) of a disadvantaged community? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Sure |
| Does the project provide specific benefits to critical water issues for Native American tribal communities? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Sure If yes, please identify the tribal community: _____ |

Please indicate to what extent your project contributes to Climate Change Response Actions.

| Adaptation to Climate Change | |
|---|--|
| <input checked="" type="checkbox"/> | Increases Water Supply Reliability |
| <input checked="" type="checkbox"/> | Advances/ Expands Conjunctive Management of Multiple Water Supply Sources |
| <input type="checkbox"/> | Increases Water Use and/or Reuse Efficiency |
| <input checked="" type="checkbox"/> | Provides Additional Water Supply |
| <input checked="" type="checkbox"/> | Promotes Water Quality Protection |
| <input type="checkbox"/> | Reduces Water Demand |
| <input type="checkbox"/> | Advances/Expands Water Recycling |
| <input checked="" type="checkbox"/> | Promotes Urban Runoff Reuse |
| <input type="checkbox"/> | Addresses Sea Level Rise |
| <input checked="" type="checkbox"/> | Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: Program enhances use of alternate water source, will help reduce impacts of climate change on traditional water resources. |
| <input checked="" type="checkbox"/> | Improves Flood Control (e.g. through wetlands restoration, management, protection) |
| <input checked="" type="checkbox"/> | Promotes Habitat Protection |
| <input type="checkbox"/> | Establishes Migration Corridors |
| <input type="checkbox"/> | Re-establishes River-Floodplain Hydrologic Continuity |
| <input type="checkbox"/> | Re-introduces Anadromous Fish Populations to Upper Watersheds |
| <input type="checkbox"/> | Enhances and Protects Upper Watershed Forests and Meadow Systems |
| <input checked="" type="checkbox"/> | Other (Please State):Program reduces historic losses of water from the local habitat as the result of evaporation. Program will enhance capture and preservation of water resources in the local aquifer. |
| <input type="checkbox"/> | Other (Please State):_____ |
| Reduces Greenhouse Gas Emissions and/or Energy Consumption | |
| <input checked="" type="checkbox"/> | Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency |
| <input checked="" type="checkbox"/> | Improves Water System Energy Efficiency |
| <input checked="" type="checkbox"/> | Advances/Expands Water Recycling |
| <input checked="" type="checkbox"/> | Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand |
| <input type="checkbox"/> | Promotes Use of Renewable Energy Sources |
| <input type="checkbox"/> | Contributes to Carbon Sequestration (e.g. through vegetation growth) |
| <input type="checkbox"/> | Other (Please State): |

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 1 million

Upper estimated total capital cost (\$): 1 million

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): 0

Annual Operation and Maintenance Cost (\$): \$200 per unit

Design Life of Project (years): 50

Economic Feasibility

| | | | |
|--|---|-----------------------------|-----------------------------------|
| Is the project cost-effective? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Sure |
| Does the project have a positive benefit-cost ratio? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Sure |

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|--|---|---|--|--|
| Project Name: | Forks Dam Storm Water Detention | | | |
| Project Sponsor: | Tony Winkel (MWA) | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Tony Winkel | 760-946-7000 | 760-240-2642 | twinkel@mojavewater.org | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Conceptual | | | | |
| Project Description (1 -2 sentences): | | | | |
| Although extremely variable on average 41,000 acre feet of storm water flow out of Afton Canyon every 6 years. Based on current State | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| This project would integrate with area recharge projects and the State of California would support the project. The Recycled Water Polic | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | |
| | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| Forks Dam and Mojave River Corridor | | | | |
| Latitude/Longitude - info available at: http://geocoder.us/ | | | | |
| Lat: | | Long: | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input type="checkbox"/> | \$1M - \$10M <input checked="" type="checkbox"/> | >\$10M <input checked="" type="checkbox"/> |
| Project Status (Check all that apply): | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |
| Estimated Year of Completion: | | | | |
| Unknown - would depend on permits | | | | |

| Project Benefits | | | |
|---|--|---|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | restoration of riparian habitat from dewatered areas | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : Yes | Multi-benefit Y/N: Yes | | |
| Multi-stakeholder project/regional collaboration | Y/N: Yes | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | | |
| Other: (<i>Describe X amount of benefit</i>) | <ul style="list-style-type: none"> • Locally sourced "free" water • Revenue source for MWA • Conservation of lost storm water | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|--|--|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Drought Preparedness | | |
| <input type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input type="checkbox"/> | Expand Environmental Stewardship | | |
| <input checked="" type="checkbox"/> | Practice Integrated Flood Management | | |
| <input checked="" type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input checked="" type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input checked="" type="checkbox"/> | Include Regional Projects or Programs | | |
| <input type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input checked="" type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input checked="" type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input checked="" type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input checked="" type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input checked="" type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input checked="" type="checkbox"/> | Flood Risk Management | <input checked="" type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input checked="" type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|---|---|--|--|---|
| Project Name: | Helendale CSD - WWTP Effluent Distribution System | | | |
| Project Sponsor: | Helendale CSD | | | |
| If Joint Project, Other Partners: | Silver Lakes Association HOA and Golf Course | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Michael Bennett - GM | 760-245-1606 | | mbennett@silverlakesassociation.com | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Conceptual | | | | |
| Project Description (1-2 sentences): | | | | |
| Design and construction of "Purple Pipe" pipeline system to convey effluent water to nearby Golf Course Irrigation system that currently uses pumped groundwater. | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| This project would integrate with future expansion and Tertiary treatment upgrades at the Helendale CSD Wastewater Treatment Plant on Helendale Road. | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | |
| | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| Pipeline from Helendale Road WWTP south to Golf Irrigation Pump house on Silver Lakes Parkway using existing pipeline and right of way, then west across Golf Course. | | | | |
| Latitude/Longitude - info available at: http://geocoder.us/ | | Lat: 34, 45', 13.94" N | Long: 117, 20' 30.90" W | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> |
| Project Status (Check all that apply): | | | | |
| | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete <input type="checkbox"/> |
| Estimated Year of Completion: | | | | |
| | | | | |

| Project Benefits | | | |
|---|-------------------------------------|---|--|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input checked="" type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> | Multi-benefit Y/N: | | |
| Multi-stakeholder project/regional collaboration | Y/N: | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|--|--|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Drought Preparedness | | |
| <input checked="" type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input checked="" type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input checked="" type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input type="checkbox"/> | Include Regional Projects or Programs | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input checked="" type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input checked="" type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY **August 1, 2013** to comments@mywaterplan.com. Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

HELENDALE COMMUNITY SERVICES DISTRICT

Agency / Organization / Individual Address:

26540 Vista Road, Suite B, PO Box 359, Helendale, CA 92342

Possible Partnering Agencies:

Silver Lakes Association

Name: *

Paul E. Harmon

Title:

Assistant General Manager

Telephone: *

760-951-0006

Fax:

760-951-0046

Email: *

pharmon@helendalecsd.org

Website:

www.helendalecsd.org

Project Name: *

Helendale CSD Tertiary Treatment Upgrade

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34° 46' 31.51" N

Project Longitude: 117° 19' 42.72" W

| | |
|------------------------------|--|
| Location Description: | Helendale CSD Waste Water Treatment Plant 27079 Helendale Road Helendale, CA 92342 |
|------------------------------|--|

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

| |
|----------------------------|
| • Silver Lakes Association |
| • |
| • |
| • |

Project Status (e.g., new, ongoing, expansion, new phase):

| |
|-----|
| New |
|-----|

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

| |
|-----------------------|
| Implementable Project |
|-----------------------|

PART 2: PROJECT NEED*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

| |
|---|
| <p>The Wastewater Treatment Plant (WWTP) produces approximately .6mgd daily average, with flows into to percolating/holding ponds. The secondary effluent is partially used by an alfalfa farmer for his livestock operation. The effluent has been salt loading under the WWTP for many years which has been affecting the groundwater. The District pumps approximately 1,750AF annually with an FPA of 1,695AF. The proposed tertiary upgrade would provide an estimated 350AF annually that could be used for park irrigation instead of using groundwater, thereby reducing our pumping demand, and, if partnered with the Silver Lakes Association (SLA), the project would be able to provide additional water supply for irrigation of their golf course that would reduce the pumping of groundwater by SLA. The SLA has FPA of 2,993AF and pumps approximately 3,326 AF.</p> <p>This project also melds with the Salt and Salinity Management Plan for the basin by reducing the nitrates associated with secondary effluent.</p> |
|---|

PART 3: PROJECT DESCRIPTION*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The District has completed a Recycled Water Facilities Plan which has identified a preferred treatment alternative and cost scenario estimated at \$2,670,000 for plant upgrades. The project is designed to produce recycled tertiary water for use within the District service area by improving the WWTP processes to provide unrestricted Title 22 recycled water. The delivery phase is two-stage with minor delivery required to move Title 22 water across the street to Helendale Community Park for landscape irrigation, and the second stage for delivery of Title 22 water to the Silver Lakes Association for golf course irrigation which would require an extensive pump station and force main. The next phase is recycled water storage required to store water during the wet months for use in the dry months and for use by the onsite farming operation. However, this stage of tertiary treatment can be reduced by the implementation of full phase 2 providing recycled water to the SLA golf course.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

| |
|------------------------|
| • Alto Transition Zone |
| • Mojave River |
| • |
| • |

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

| |
|----------------------------------|
| • Recycled water Facilities Plan |
| • Antidegradation Analysis Study |
| • Farm Management Plan |

How do you rate the technical feasibility of the proposed project?

| | |
|--|---|
| <input checked="" type="checkbox"/> High | The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results. |
| <input type="checkbox"/> Medium | The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success. |
| <input type="checkbox"/> Low | The project has not been done before and technical feasibility is not adequately documented. |

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|--|--|---|-------------|
| 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 9. Improve stormwater management throughout the Plan area. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |
| 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |

| Mojave IRWM Plan Objective | Contribution | | | Description |
|---|--|--|---|-------------|
| 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | |
| 6. Prevent land subsidence throughout the Region. | <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | |

PART 5: RESOURCE MANAGEMENT STRATEGIES*

**Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)**

| Reduce Water Demands | | | |
|---|---|--|--|
| <input type="checkbox"/> Primary | <input checked="" type="checkbox"/> Secondary | <input type="checkbox"/> NA | Agricultural Water Use Efficiency |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Urban Water Use Efficiency |
| Improve Operational Efficiency and Transfers | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conveyance – Delta, Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | System Reoperation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Water Transfers |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Increase Water Supply | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Conjunctive Management and Groundwater Storage |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Desalination – Brackish/Seawater |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Precipitation Enhancement |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Recycled Municipal Water |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Surface Storage – CALFED or Regional/Local |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Improve Water Quality | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Drinking Water Treatment and Distribution |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Groundwater/Aquifer Remediation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Matching Quality to Use |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Pollution Prevention |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Salt and Salinity Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Urban Runoff Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State) _____ |

| Practice Resource Stewardship | | | |
|---|------------------------------------|--|--|
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Agricultural Lands Stewardship |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Economic Incentives (loans, grants, water pricing) |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Ecosystem Restoration |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Forest Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Land Use Planning and Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Recharge Areas Protection |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input type="checkbox"/> NA | Water-Dependent Recreation |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Watershed Management |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Other (Please State): _____ |
| Improve Flood Risk Management | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Flood Risk Management |
| Other Strategies | | | |
| <input type="checkbox"/> Primary | <input type="checkbox"/> Secondary | <input checked="" type="checkbox"/> NA | Please State: _____ |

| | |
|---|---|
| Is the proposed project an element or phase of a regional or larger program? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If yes, please identify the program | _____ |

PART 6: PROJECT READINESS*

| Item | Status (e.g., not initiated, in process, complete, N/A) | Expected Completion Date |
|---------------------------------------|--|--------------------------------|
| Conceptual Plans | <u>COMPLETE</u> | <u>01/17/2012</u> (mm/dd/yyyy) |
| Feasibility Study | <u>COMPLETE</u> | <u>01/17/2012</u> (mm/dd/yyyy) |
| Preliminary Design and Cost Estimates | <u>IN PROCESS</u> | _____ (mm/dd/yyyy) |
| CEQA/NEPA | <u>NOT INITIATED</u> | _____ (mm/dd/yyyy) |
| Permits | <u>NOT INITIATED</u> | _____ (mm/dd/yyyy) |
| Construction Drawings | <u>NOT INITIATED</u> | _____ (mm/dd/yyyy) |
| Funding | <u>NOT INITIATED</u> | _____ (mm/dd/yyyy) |

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

Clean Water State Revolving Fund – SWRCB construction loan
 Water Recycling Funding Program – SWRCB recycled water facilities loan
 State Revolving Fund (SRF) – I-Bank infrastructure Loan

Please indicate to what extent your project contributes to Climate Change Response Actions.

| Adaptation to Climate Change | |
|---|---|
| <input checked="" type="checkbox"/> | Increases Water Supply Reliability |
| <input type="checkbox"/> | Advances/ Expands Conjunctive Management of Multiple Water Supply Sources |
| <input type="checkbox"/> | Increases Water Use and/or Reuse Efficiency |
| <input checked="" type="checkbox"/> | Provides Additional Water Supply |
| <input checked="" type="checkbox"/> | Promotes Water Quality Protection |
| <input checked="" type="checkbox"/> | Reduces Water Demand |
| <input checked="" type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse |
| <input type="checkbox"/> | Addresses Sea Level Rise |
| <input type="checkbox"/> | Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: |
| <input type="checkbox"/> | Improves Flood Control (e.g. through wetlands restoration, management, protection) |
| <input type="checkbox"/> | Promotes Habitat Protection |
| | <input type="checkbox"/> Establishes Migration Corridors |
| | <input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity |
| | <input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds |
| | <input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems |
| | <input type="checkbox"/> Other (Please State): |
| <input type="checkbox"/> | Other (Please State): _____ |
| Reduces Greenhouse Gas Emissions and/or Energy Consumption | |
| <input type="checkbox"/> | Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency |
| <input type="checkbox"/> | Improves Water System Energy Efficiency |
| <input checked="" type="checkbox"/> | Advances/Expands Water Recycling |
| <input type="checkbox"/> | Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand |
| <input type="checkbox"/> | Promotes Use of Renewable Energy Sources |
| <input type="checkbox"/> | Contributes to Carbon Sequestration (e.g. through vegetation growth) |
| <input type="checkbox"/> | Other (Please State): |

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): _____

Upper estimated total capital cost (\$): **3,523,500** _____

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): **\$750,000 – Total WWTP Operation Including Tertiary** _____

Design Life of Project (years): **25 YEARS**

Economic Feasibility

| | | | |
|--|---|-----------------------------|-----------------------------------|
| Is the project cost-effective? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Sure |
| Does the project have a positive benefit-cost ratio? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Sure |

Mojave Integrated Regional Water Management Plan
Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|--|--|---|--|--|
| Project Name: | Hydroelectric Facility at Deep Creek to generate power for R3 ground water wells | | | |
| Project Sponsor: | Mojave Water Agency | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Darrell Reynolds | 760-946-7023 | 760-240-2001 | dreynolds@mojavewater.org | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Conceptual | | | | |
| Project Description (1-2 sentences): | | | | |
| The Deep Creek Outlet to the Mojave River can generate electrical power for use by the Agency to power the R3 groundwater wells. Two | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| 7620 Deep Creek Road, Apple Valley, CA | | | | |
| Latitude/Longitude - info available at | http://geocoder.us/ | Lat: | Long: | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | Estimated Cost: | <\$100K | \$100K - \$1M | \$1M - \$10M |
| | | >\$10M | | |
| Project Status (Check all that apply): | Conc l ptual <input type="checkbox"/> | In-D e sign <input type="checkbox"/> | Real y to Implement <input type="checkbox"/> | CB A Complete <input checked="" type="checkbox"/> N/A |
| Estimated Year of Completion: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Project Benefits | | | |
|---|-------------------------------|---|--------------------------|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> |
| | | | 100-1000AF |
| | | | 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> |
| | | | 100-1000AF |
| | | | 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> |
| | | | 100-1000AF |
| | | | 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> |
| | | | 100-1000AF |
| | | | 1000+ AF |
| DACs Involvement | Y/N: <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : | | | Multi-benefit Y/N: |
| Multi-stakeholder project/regional collaboration | Y/N: | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | use electrical | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|---|--|--------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Drought Preparedness | | |
| <input checked="" type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input type="checkbox"/> | Include Regional Projects or Programs | | |
| <input type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | | |
|---|---|--|--|---|---------------------------------|
| Project Name: Indian Cove Stormwater Capture and Recharge Project | | | | | |
| Project Sponsor: <small>Twentynine Palms Water District/Joshua Basin Water District</small> | | | | | |
| If Joint Project, Other Partners: <small>See Above</small> | | | | | |
| Project Website (if available): | | | | | |
| Project Contact Person: Tamara Alaniz | Phone 760-367-7546 | FAX | Email talaniz@29palmswater.org | | |
| Project Description | | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) Conceptual - Stormwater Capture and Recharge | | | | | |
| Project Description (1-2 sentences): The Department of Water Resources has identified the safe yield for the Indian Cove groundwater basin, limiting production to 1,500 acre-feet per year to avoid overdraft. This project could mitigate past over-drafting and prevent future declines in water levels within this shared basin. | | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): This idea stems from a joint discussion between the Twentynine Palms and Joshua Basin Water Districts, in order to recharge the Indian Cove groundwater basin through stormwater capture. | | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): Not presently included in adopted plans, but the concept is identified in the 2010 29PWD UWMP | | | | | |
| Project Location | | | | | |
| Descriptive (Description of property location etc.): Indian Cove Groundwater Basin, western portion of Twentynine Palms Water District service area and eastern portion of Joshua Basin Water District service area. | | | | | |
| Latitude/Longitude - info available at: http://geocoder.us/ | | Lat: | Long: | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> | |
| Project Status (Check all that apply): | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Estimated Year of Completion: 2016-2017 | | | | | |

| Project Benefits | | | |
|---|-------------------------------------|---|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: Yes | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : | Multi-benefit Y/N: | | |
| Multi-stakeholder project/regional collaboration | Y/N: Yes | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: | | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| Limited flood control benefits | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. | |

| Statewide Priorities | | | |
|--|--|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Drought Preparedness | | |
| <input checked="" type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input type="checkbox"/> | Expand Environmental Stewardship | | |
| <input checked="" type="checkbox"/> | Practice Integrated Flood Management | | |
| <input checked="" type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input checked="" type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input type="checkbox"/> | Include Regional Projects or Programs | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input checked="" type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input checked="" type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input checked="" type="checkbox"/> | Recharge Areas Protection |
| <input type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input checked="" type="checkbox"/> | Flood Risk Management | <input checked="" type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input type="checkbox"/> | Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input checked="" type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input checked="" type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|---|---|---|---|--|
| Project Name: | Infrastructure Improvements Projects | | | |
| Project Sponsor: | Joshua Basin Water District | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: Susan Greer, AGM | Phone 760-366-8438x225 | FAX 760-366-9528 | Email Sgreer@jbwd.com | |
| Project Description | | | | |
| <u>Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)</u> | | | | |
| Planning, design and construction of facility improvements | | | | |
| <u>Project Description (1 -2 sentences):</u> | | | | |
| Design and Construction of infrastructure replacements to improve efficiency and increase conservation of resources. Particular emphasis on water booster station improvement to reduce energy impacts (i.e. reduce in-rush impacts on pump start-up and increased efficiency of equipment. | | | | |
| <u>Project Integration (Describe how the project does or could integrate with other projects in the Region):</u> | | | | |
| Upgrades to outdated infrastructure allow increased cooperation with local agencies for emergency water supply, reduction in energy based greenhouse gas production, reduced regional energy distribution system impacts. | | | | |
| <u>Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):</u> | | | | |
| Groundwater Basin Management Plan, Joshua Basin Water District Water Master Plan. | | | | |
| Project Location | | | | |
| <u>Descriptive (Description of property location etc.):</u> | | | | |
| Various locations throughout Joshua Tree, California | | | | |
| http://geocoder.us/ | | Lat: VAR. | Long: VAR. | |
| <u>Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):</u> | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input type="checkbox"/> | \$1M - \$10M <input checked="" type="checkbox"/> | >\$10M <input type="checkbox"/> |
| <u>Project Status (Check all that apply):</u> | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |
| <u>Estimated Year of Completion:</u> | | | | |
| Planning & implementation complete in 2016 if funding available 2014 | | | | |

| Project Benefits | | | | | | |
|---|--|---|-------------------------------------|------------|--------------------------|----------|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input checked="" type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| DACs Involvement | Y/N: Yes | | | | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | No | | | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N)</i> : No | Multi-benefit Y/N: | | | | | |
| Multi-stakeholder project/regional collaboration | Y/N: No | | | | | |
| Climate Change: <i>Helps assess potential impacts (Y/N)</i> : Yes | | | | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: Yes - Reduction in Energy Consumption | | | | | |
| Other: (<i>Describe X amount of benefit</i>) | Improves water quality and supply while reducing energy consumption required to provide water. | | | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | | | | |
| IRWM Plan Objectives Met | | | | | | |
| Prim. | Second. | | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | | | | |

| | | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. |

| Statewide Priorities | | | |
|--|--|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Drought Preparedness | | |
| <input checked="" type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input checked="" type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input checked="" type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input type="checkbox"/> | Include Regional Projects or Programs | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input checked="" type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input checked="" type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input checked="" type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input checked="" type="checkbox"/> | Conveyance - Delta, Regional/Local | <input type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input type="checkbox"/> | Ecosystem Restoration | <input checked="" type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input checked="" type="checkbox"/> | Urban Water Use Efficiency |
| <input type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input type="checkbox"/> | Matching Water Quality to Water Use | <input checked="" type="checkbox"/> | Watershed Management |

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|--|---|---|---|--|
| Project Name: | JBWD Central Wastewater Treatment Plant Project | | | |
| Project Sponsor: | Joshua Basin Water District | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: Susan Greer, AGM | Phone 760-366-8438x225 | FAX 760-366-9528 | Email Sgreer@jbwd.com | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Design, Environmental and Construction of Central WWTP, continuation of JBWD Wastewater Treatment Strategy | | | | |
| Project Description (1-2 sentences): | | | | |
| Design and construction of required central WWTP to include plant siting, WWTP design, trunk sewer alignment and design, environmental compliance, permitting and construction. Central WWTP provides long-term control of nitrate contamination in groundwater basin, as well as other contaminants identified in past studies. | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| Central WWTP could be integrated into regional sewer strategy. Central WWTP protects local groundwater basins that provide regional water supply to JBWD and potentially to other local agencies through system intertie facilities. | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | |
| Groundwater Basin Management Plan, Wastewater Treatment Strategy | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| WWTP siting and design is a project task. The conceptual project location is east of LaFerney Avenue and Terrace Drive. The trunk sewer would parallel SR62 from approximately Yucca Mesa Drive to the plant site. | | | | |
| | http://geocoder.us/ | Lat: 34°08'32"N | Long: 116°16'25"W | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input checked="" type="checkbox"/> |
| Project Status (Check all that apply): | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |
| Estimated Year of Completion: | | | | |
| Design, environmental & construction complete in 2016, if funding available 2014 | | | | |

| Project Benefits | | | | | | |
|---|---|---|-------------------------------------|------------|--------------------------|----------|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input checked="" type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> | 100-1000AF | <input type="checkbox"/> | 1000+ AF |
| DACs Involvement | Y/N: Yes | | | | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N):</i> | | | | | Multi-benefit Y/N: | |
| Multi-stakeholder project/regional collaboration | Y/N: No | | | | | |
| Climate Change: <i>Helps assess potential impacts (Y/N):</i> | No | | | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: Yes - Groundwater Protection, Health | | | | | |
| Other: (<i>Describe X amount of benefit</i>) | Controls nitrate contamination of groundwater basin, provides public health benefits, consistent with overall basin plan and wastewater treatment strategy of region. | | | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | | | | |
| IRWM Plan Objectives Met | | | | | | |
| Prim. | Second. | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | | | | |

| | | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. |

| Statewide Priorities | | | |
|--|--|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Drought Preparedness | | |
| <input checked="" type="checkbox"/> | Use and Reuse Water More Efficiently | | |
| <input type="checkbox"/> | Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption) | | |
| <input checked="" type="checkbox"/> | Expand Environmental Stewardship | | |
| <input type="checkbox"/> | Practice Integrated Flood Management | | |
| <input checked="" type="checkbox"/> | Protect Surface and Groundwater Quality | | |
| <input type="checkbox"/> | Improve Tribal Water and Natural Resources | | |
| <input type="checkbox"/> | Ensure Equitable Distribution of Benefits | | |
| Program Preferences | | | |
| <input type="checkbox"/> | Include Regional Projects or Programs | | |
| <input checked="" type="checkbox"/> | Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR | | |
| <input type="checkbox"/> | Effectively Resolve Significant Water-Related Conflicts within or between Regions | | |
| <input checked="" type="checkbox"/> | Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program | | |
| <input checked="" type="checkbox"/> | Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region | | |
| <input type="checkbox"/> | Effectively Integrate Water Management with Land Use Planning | | |
| CA Water Plan - Resource Management Strategies | | | |
| <input type="checkbox"/> | Agricultural Lands Stewardship | <input type="checkbox"/> | Pollution Prevention |
| <input type="checkbox"/> | Agricultural Water Use Efficiency | <input type="checkbox"/> | Precipitation Enhancement |
| <input type="checkbox"/> | Conjunctive Management and Groundwater Storage | <input type="checkbox"/> | Recharge Areas Protection |
| <input checked="" type="checkbox"/> | Conveyance - Delta, Regional/Local | <input checked="" type="checkbox"/> | Recycled Municipal Water |
| <input type="checkbox"/> | Desalination - Brackish & Seawater | <input type="checkbox"/> | Salt & Salinity Management |
| <input type="checkbox"/> | Drinking Water Treatment and Distribution | <input type="checkbox"/> | Surface Storage - CALFED |
| <input type="checkbox"/> | Economic Incentives | <input type="checkbox"/> | Surface Storage - Regional/Local |
| <input checked="" type="checkbox"/> | Ecosystem Restoration | <input type="checkbox"/> | System Reoperation |
| <input type="checkbox"/> | Flood Risk Management | <input type="checkbox"/> | Urban Runoff Management |
| <input type="checkbox"/> | Forest Management | <input checked="" type="checkbox"/> | Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> | Groundwater/Aquifer Remediation | <input type="checkbox"/> | Water Transfers |
| <input type="checkbox"/> | Land Use Planning & Management | <input type="checkbox"/> | Water-Dependent Recreation |
| <input checked="" type="checkbox"/> | Matching Water Quality to Water Use | <input checked="" type="checkbox"/> | Watershed Management |

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Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | |
|--|---|--|--|--|
| Project Name: | JBWD Graywater & Rainwater Harvesting Project | | | |
| Project Sponsor: | Joshua Basin Water District | | | |
| If Joint Project, Other Partners: | | | | |
| Project Website (if available): | | | | |
| Project Contact Person: | Phone | FAX | Email | |
| Susan Greer, AGM | 760-366-8438x225 | 760-366-9528 | Sgreer@jbwd.com | |
| Project Description | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | |
| Planning, Design, Education & Implementation of Graywater & Rainwater Harvesting Facilities | | | | |
| Project Description (1-2 sentences): | | | | |
| Development of design standards and funding of on-site collection facilities for capture of graywater and rainwater by individual property owners located in the JBWD service area. Water collected would be used for gardening and other non-potable uses, reducing dependence on groundwater. Public education is an important component of the project and will include printed materials and demonstration models of collection facilities. Project compliments the District's new imported water recharge project and educates property owners about how graywater and rainwater collection can contribute to increasing local water supplies and conserving groundwater. | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | |
| | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | |
| Groundwater Basin Management Plan, Regional Water Quality Control Board Planning Documents | | | | |
| Project Location | | | | |
| Descriptive (Description of property location etc.): | | | | |
| Facilities would be located on private properties, with demonstration project adjacent to the District's recharge facility and/or offices to promote educational aspect of the program. | | | | |
| Latitude/Longitude - info available at: http://geocoder.us/ | Lat: | Long: | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | Estimated Cost: | | | |
| | <\$100K <input type="checkbox"/> | \$100K - \$1M <input checked="" type="checkbox"/> | \$1M - \$10M <input type="checkbox"/> | >\$10M <input type="checkbox"/> |
| Project Status (Check all that apply): | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |
| Estimated Year of Completion: | | | | |
| Complete in 2016, if funding available 2014 | | | | |

| Project Benefits | | | |
|---|-------------------------------------|---|---|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input checked="" type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: Yes | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N):</i> Yes | Multi-benefit Y/N: No | | |
| Multi-stakeholder project/regional collaboration | Y/N: No | | |
| Climate Change: <i>Helps assess potential impacts (Y/N):</i> No | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: Yes, conservation | | |
| Other: (<i>Describe X amount of benefit</i>) | | | |
| Collection and use of rainwater and graywater will result in reduction of groundwater overdraft, a new water supply and reduction to demand. | | | |
| Project Criteria | | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. | Second. | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |

| | | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Prevent land subsidence throughout the Region. |

Statewide Priorities

- Drought Preparedness
- Use and Reuse Water More Efficiently
- Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- Expand Environmental Stewardship
- Practice Integrated Flood Management
- Protect Surface and Groundwater Quality
- Improve Tribal Water and Natural Resources
- Ensure Equitable Distribution of Benefits

Program Preferences

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input checked="" type="checkbox"/> System Reoperation |
| <input checked="" type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input checked="" type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |



Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)

| | | | |
|-----------------------------------|----------------------------------|--------------|--|
| Project Name: | JBWD Stormwater Recovery Project | | |
| Project Sponsor: | Joshua Basin Water District | | |
| If Joint Project, Other Partners: | | | |
| Project Website (if available): | | | |
| Project Contact Person: | Phone | FAX | Email |
| Susan Greer, AGM | 760-366-8438x225 | 760-366-9528 | Sgreer@jbwd.com |

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
 Design, Environmental and Construction of Stormwater Recovery Facilities.

Project Description (1-2 sentences):
 Capture and retain stormwater from local arroyos into the new recharge basin to enhance percolation potential into the groundwater basin. Includes studies to determine quantities of stormwater that could be recharged, engineering feasibility for retention and percolation and environmental review. Project would increase groundwater basin recharge and minimize downstream impacts.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
 Groundwater Basin Management Plan, Regional Water Quality Control Board Planning Documents

Project Location

Descriptive (Description of property location etc.):
 Stormwater facilities would be located adjacent to the District's recharge facility at the terminus of Verbena Street, adjacent to a local channelized arroyo.

| | | |
|---|-----------------|-------------------|
| http://geocoder.us/ | Lat: 34°08'20"N | Long: 116°18'00"W |
|---|-----------------|-------------------|

| | | | | |
|--|---|---|---|--|
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | |
| Estimated Cost: | <\$100K <input type="checkbox"/> | \$100K - \$1M <input type="checkbox"/> | \$1M - \$10M <input checked="" type="checkbox"/> | >\$10M <input type="checkbox"/> |
| Project Status (Check all that apply): | Conceptual <input checked="" type="checkbox"/> | In-Design <input type="checkbox"/> | Ready to Implement <input type="checkbox"/> | CEQA Complete N/A <input type="checkbox"/> <input type="checkbox"/> |

Estimated Year of Completion:
 Design, environmental & construction complete in 2016, if funding available 2014

| Project Benefits | | | |
|---|---|---|--|
| Water Demand: <i>Water Savings/Demand Reduction (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input checked="" type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Water Supply: <i>New Supply Created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input checked="" type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Recycled Water: <i>New RW Supply created (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| Groundwater: <i>Reduction in overdraft/increase in recharge (AFY)</i> (Check one) | <input type="checkbox"/> | 1-100 AF | <input checked="" type="checkbox"/> 100-1000AF <input type="checkbox"/> 1000+ AF |
| DACs Involvement | Y/N: Yes | | |
| Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>): | | | |
| Stormwater: <i>Reduction in Flood Damage (Y/N):</i> Yes | Multi-benefit Y/N: No | | |
| Multi-stakeholder project/regional collaboration | Y/N: No | | |
| Climate Change: <i>Helps assess potential impacts (Y/N):</i> No | | | |
| Environmental Stewardship/Public Awareness | Direct Benefits: Yes - basin replenishment & flood control | | |
| Other: (<i>Describe X amount of benefit</i>) | Increased groundwater recharge, flood damage prevention, groundwater quality enhancements, increased water supply, reduced ground subsidence, decreased import water dependency | | |
| Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria. | | | |
| IRWM Plan Objectives Met | | | |
| Prim. Second. | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources. | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Improve stormwater management throughout the Plan area. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon. | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply. | |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment. | |

| | | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons. |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Optimize the use of the Region's water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies. |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon. |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Prevent land subsidence throughout the Region. |

Statewide Priorities

- Drought Preparedness
- Use and Reuse Water More Efficiently
- Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- Expand Environmental Stewardship
- Practice Integrated Flood Management
- Protect Surface and Groundwater Quality
- Improve Tribal Water and Natural Resources
- Ensure Equitable Distribution of Benefits

Program Preferences

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- | | |
|--|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input checked="" type="checkbox"/> Conjunctive Management and Groundwater Storage | <input checked="" type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input checked="" type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |



Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

| General Information (Required) | | | | | | |
|--|--|-------------------------------------|--|-------------------------------------|--------------------------|--------------------------|
| Project Name: | Johnson Valley Pressurized Water System | | | | | |
| Project Sponsor: | Bighorn-Desert View Water Agency | | | | | |
| If Joint Project, Other Partners: | | | | | | |
| Project Website (if available): | | | | | | |
| Project Contact Person: | Phone | FAX | Email | | | |
| Marina West | 760-364-2315 | 760-364-3214 | bdvwa2@mindspring.com | | | |
| Project Description | | | | | | |
| Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program) | | | | | | |
| Conceptual (Agency has conducted a survey of property owners which indicates a strong interest in constructing a pressurized water system. The Agency has completed preliminary work evaluating various system layouts [pipeline alignments and reservoir capacity requirements] and has prepared cost estimates) | | | | | | |
| Project Description (1-2 sentences): | | | | | | |
| Approximately 1/3rd of the Agency's service area is without a pressurized water supply. Residents in these areas rely on hauled water (self-haul or commercial delivery). Property owners are now prohibited from building or improving their property using hauled water as the water supply. Project would bring a pressurized water distribution system to the area to improve quality of life, public health and provide for enhanced fire protection. Project should include additional studies for locating water supply wells (building on historical data and the existing conceptual model report), evaluate if existing monitoring Well No. JVHI can be deepened and converted to a production well and CEQA/NEPA studies. | | | | | | |
| Project Integration (Describe how the project does or could integrate with other projects in the Region): | | | | | | |
| Other small water systems may have similar challenges in funding a similar projects in rural, economically disadvantaged, low density, areas. | | | | | | |
| Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): | | | | | | |
| Feasibility was addressed in Water Infrastructure Restoration Program Mitigated Negative Declaration June 2010. | | | | | | |
| Project Location | | | | | | |
| Descriptive (Description of property location etc.): | | | | | | |
| Design and installation of pressurized water distribution mainlines, elevated storage tanks, wells, (possible) pump stations and (possible) pressure reducing stations in the developed areas of the Agency service area currently without a pressurized distribution system. | | | | | | |
| Latitude/Longitude - info available at: | http://geocoder.us/ | Lat: | Long: | | | |
| Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): | | | | | | |
| Estimated Cost: | <\$100K | \$100K - \$1M | \$1M - \$10M | >\$10M | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Project Status (Check all that apply): | CEQA 2010 addresses WIRP which includes JV feasibility | Conceptual | In-Design | Ready to Implement | CEQA Complete | N/A |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Estimated Year of Completion: | 2020-2025 | | | | | |